

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/621,762	07/18/2003	Takashi Azuma	520.42926X00	1714
		7590 03/09/200 TERRY, STOUT & K	Takashi Azuma AUS, LLP ET MAIL DATE	EXAMINER	
	1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873		EET	CHENG, JACQUELINE	
				ART UNIT	PAPER NUMBER
				3768	
_					
L	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
	3 MO	NTHS	03/09/2007	PAP	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		· · · · · · · · · · · · · · · · · · ·				
	Application No.	Applicant(s)				
	10/621,762	AZUMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jacqueline Cheng	3768				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
. 1)⊠ Responsive to communication(s) filed on <u>18 Ju</u>	ılv 2003					
	action is non-final.					
3) Since this application is in condition for allowar		osecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 17 is/are allowed.						
6) Claim(s) <u>1,2,6,8-16,18,22 and 26</u> is/are rejecte						
7) Claim(s) <u>3-5,7,19-21,23-25 and 27</u> is/are object						
8) Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>18 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					
						

Application/Control Number: 10/621,762

Art Unit: 3768

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 6, 8-16, 18, 22 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hossack (US 6,511,426 B1) in view of Avila (US 6,413,219). Hossack discloses a method and system for adjustable generating two and three-dimensional representation from combining two types of B-mode data. This data maybe combined multiple times pursuant to different relationships (weighting) and then is displayed (abstract). The combination processor that combines the images receives control signals based upon user input of the parameters the user wants to use to combine the images (col. 23 line 50-60). Hossack discloses many different types images that can be combined (synthesized), two of which include an image emphasizing texture (col. 27 line 40-43) and an image emphasizing structure (col. 19 line 21-30). These images as well as the combined images can be displayed in any variety wanted such as having two combined images that are combined with different relationships shown together (col. 28 line 16-20).
- 3. Besides what Hossack discloses as described above, Hossack also discloses an ultrasonic system from which the images are collected from. This system, or any other system well known in the art of ultrasonic imaging can be used to collect the data such as the ultrasound system of

Application/Control Number: 10/621,762

Art Unit: 3768

Avila. The ultrasound system of Avila comprises a B-mode ultrasonic probe incorporating an array of transducers that transmits an ultrasound beam and receives the signal reflected back. It also comprises a control unit for controlling the ultrasonic parts, an envelope detector, and a scan converter.

Allowable Subject Matter

- 4. **Claim 17** is allowed.
- 5. Claims 3-5, 7, 19-21, 23-25, and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schwartz (US 5,720,291), Jackson (US 6,193,660 B1), Kim (US 5,793,883) Kanda (US 6,283,918 B1), Lemelson (US 5,878,746), Sumanaweera (US 6,442,894 B1).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline Cheng whose telephone number is 571-272-5596. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/621,762

Art Unit: 3768

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC